

1/11

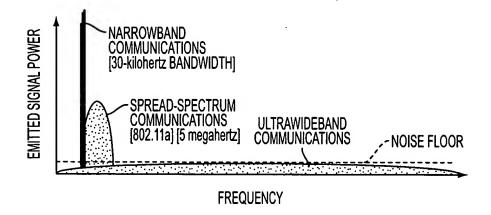


FIG. 1

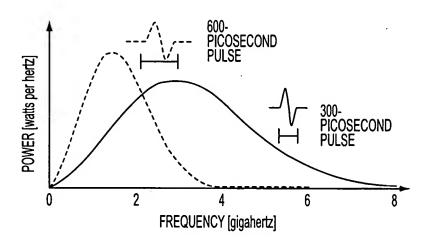
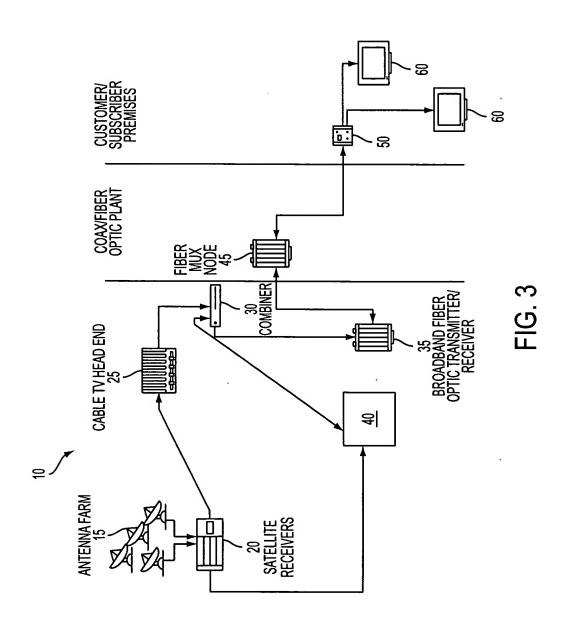
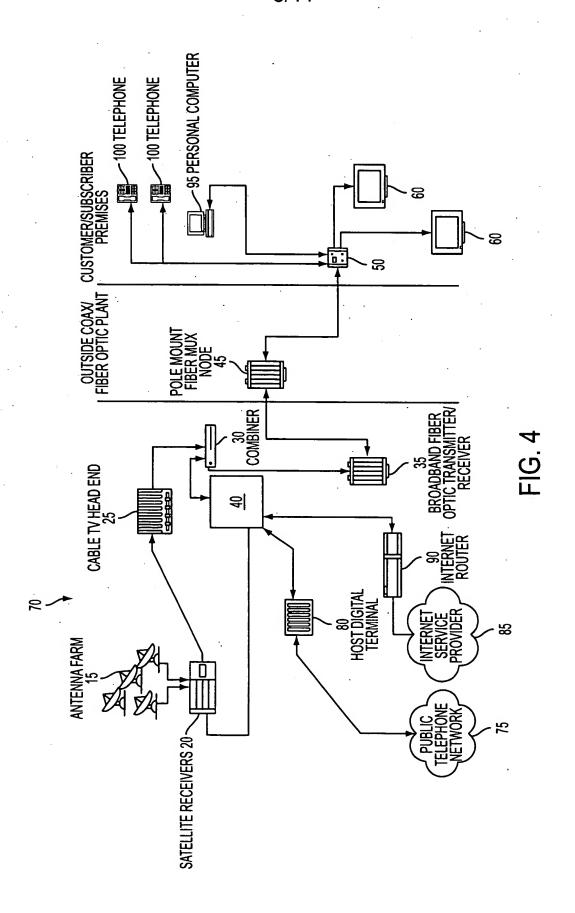


FIG. 2

Title: OPTIMIZATION OF ULTRA-WIDEBAND COMMUNICATION THROUGH A WIRE MEDIUM
Filed: 02/03/04 Exp. Mail No.: ER746710147US Inventor: SANTHOFF Docket No.: 057-116 Contact: Steve Moore; 760-607-0844
FIG. 3 Sheet 2 of 11



Title: OPTIMIZATION OF ULTRA-WIDEBAND COMMUNICATION THROUGH A WIRE MEDIUM Filed: 02/03/04 Exp. Mail No.: ER746710147US Inventor: SANTHOFF Docket No.: 057-116 Contact: Steve Moore; 760-607-0844 FIG. 4 Sheet 3 of 11



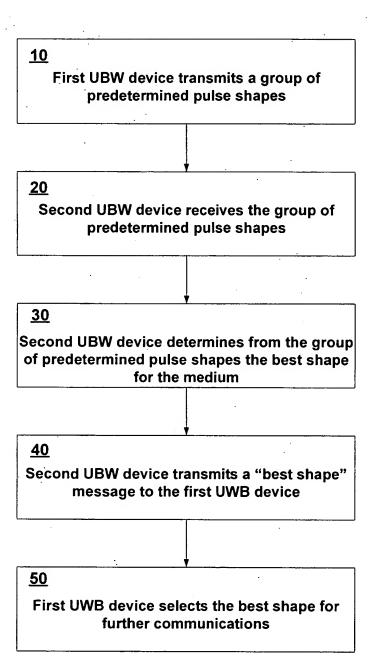
Filed: 02/03/04 Exp. Mail No.: ER746710147US Inventor: SANTHOFF Docket No.: 057-116

Contact: Steve Moore; 760-607-0844

FIG. 5 Sheet 4 of 11

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FIG. 5



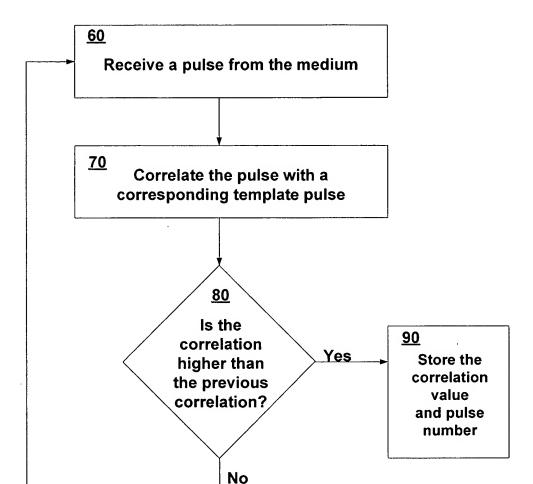
Filed: 02/03/04 Exp. Mail No.: ER746710147US Inventor: SANTHOFF Docket No.: 057-116

Contact: Steve Moore; 760-607-0844

FIG. 6 Sheet 5 of 11

FIG. 6 5/11

No



<u>100</u>

is the

training

sequence

complete?

<u>110</u>

Yes

**Transmit** 

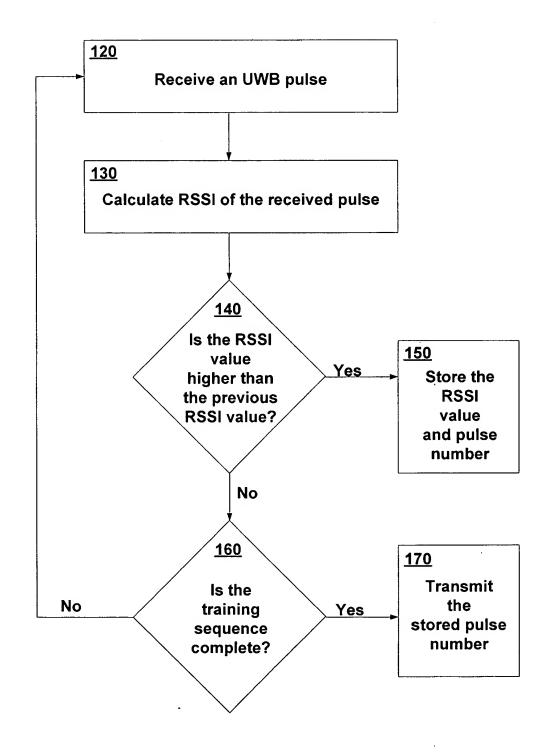
the

stored pulse

number

Title: OPTIMIZATION OF ULTRA-WIDEBAND COMMUNICATION THROUGH A WIRE MEDIUM Filed: 02/03/04 Exp. Mail No.: ER746710147US Inventor: SANTHOFF Docket No.: 057-116 Contact: Steve Moore; 760-607-0844 FIG. 7 Sheet 6 of 11

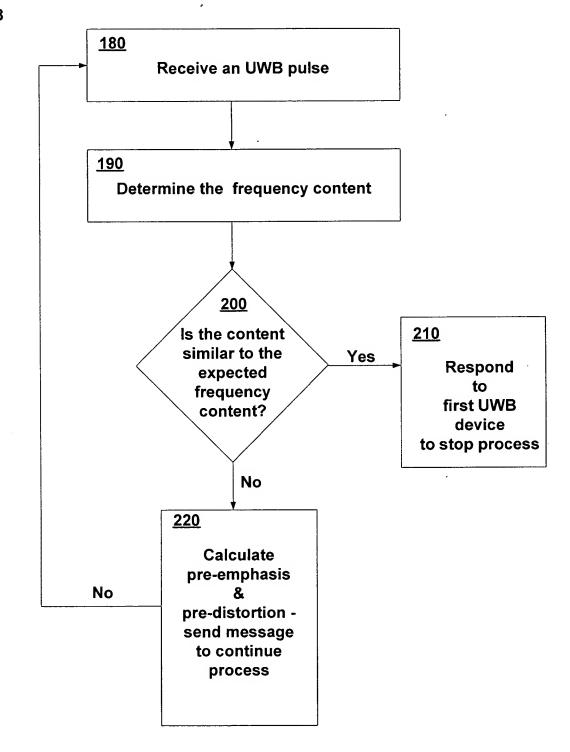
FIG. 7



Title: OPTIMIZATION OF ULTRA-WIDEBAND TECHNOLOGY FOR WIRE MEDIA

Filed: 01/20/04 Exp. Mail No.: EV291327045US Inventor: SANTHOFF Docket No.: 057-116 Contact: Peter R. Martinez ; 760-607-0844 FIG. 8 Sheet 7 of 11

FIG. 8



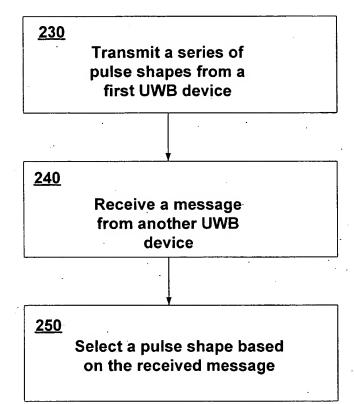
Filed: 02/03/04 Exp. Mail No.: ER746710147US Inventor: SANTHOFF Docket No.: 057-116

Contact: Steve Moore; 760-607-0844

FIG. 9 Sheet 8 of 11

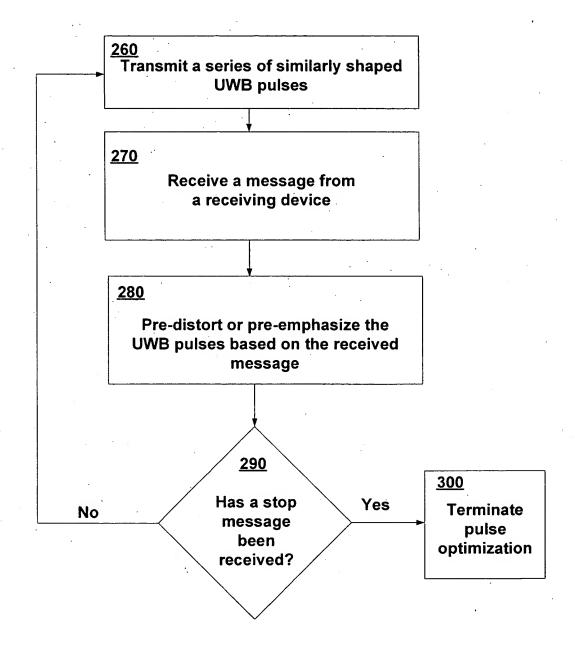
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FIG. 9



Title: OPTIMIZATION OF ULTRA-WIDEBAND: COMMUNICATION THROUGH A WIRE MEDIUM
Filed: 02/03/04 Exp. Mail No.: ER746710147US
Inventor: SANTHOFF Docket No.: 057-116
Contact: Steve Moore; 760-607-0844
FIG. 10 Sheet 9 of 11

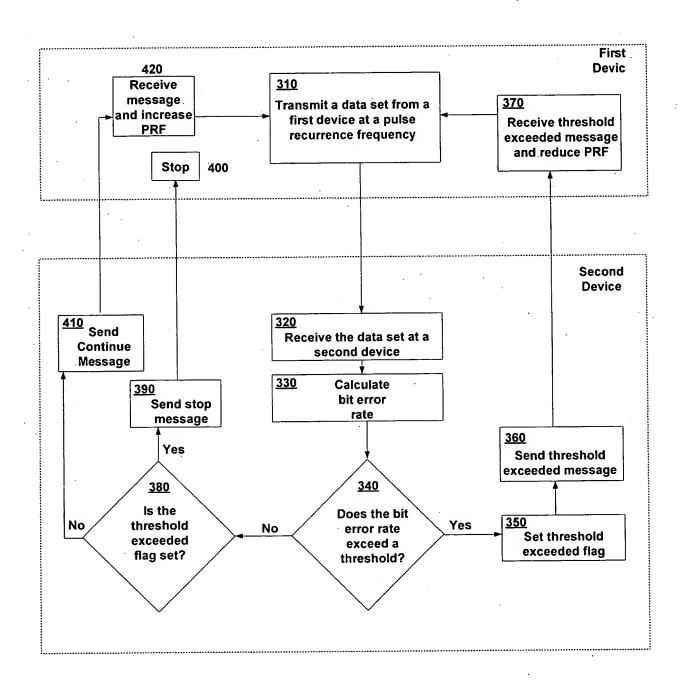
FIG. 10



Filed: 02/03/04 Exp. Mail No.: ER746710147US Inventor: SANTHOFF Docket No.: 057-116

Contact: Steve Moore; 760-607-0844 FIG. 11 Sheet 10 of 11,

FIG. 11



Title: OPTIMIZATION OF ULTRA-WIDEBAND COMMUNICATION THROUGH A WIRE MEDIUM Filed: 02/03/04 Exp. Mail No.: ER746710147US Inventor: SANTHOFF Docket No.: 057-116 Contact: Steve Moore; 760-607-0844 FIG. 12 Sheet 11 of 11

FIG. 12

